

IN THE CLAIMS:

1. (Currently Amended) A device for performing a binding pair assay comprising:

(a) a housing comprising a sampler member and a detection member, wherein the device is capable of being separated into at least two parts comprising the sampler member and the detection member, and the device is further capable of being assembled into one part;

(b) a chromatography region associated with the detection member comprising a chromatography medium with having a transit zone and a capture zone; ~~and~~

(c) a sample collector associated with the sampler member that is exposed to receive sample upon separation of the device into the sampler member and the detection member, and wherein the sample collector is in capillary communicating contact with the capture zone through the transit zone when the device is assembled and;

(d) a reagent delivery system positioned relative to the sampler member for delivery a liquid reagent to the sample collector, wherein the reagent delivery system is positioned so that the liquid reagent is added to the reagent delivery system after the sampler member and detection member are assembled into one part and flows through the sample collector and into the chromatography region.

2. (Original) The device of claim 1 wherein the sample collector comprises an absorbent wick or tubing.

3. (Original) The device of claim 2 wherein the absorbent wick comprises a bibulous material.

4. (Original) The device of claim 2 wherein the bibulous material is selected from the group consisting of filter paper, chromatographic paper, nitrocellulose, cellulose acetate, polyacrylamide, cross-linked dextrose, and agarose.

5. (Original) The device of claim 2 wherein the absorbent wick or tubing comprises at least one volume indicator near the distal end to indicate sample volume.

6. (Previously Presented) The device of claim 2 wherein the sample collector is located in the sampler member.

7. (Currently Amended) The device of claim 1 ~~further comprising a~~ wherein the reagent delivery system comprises an absorbent reagent pad for delivering liquid reagent to the sample collector so that the liquid reagent flows through the sample collector and into the chromatography region.

8. (Original) The device of claim 7 wherein the reagent delivery system is positioned upstream of the sample collector.
9. (Original) The device of claim 7 wherein the sample collector comprises an absorbent wick or tubing and conducts liquid reagent from the reagent delivery system to the transit zone when the device is assembled.
10. (Previously Presented) The device of claim 7 wherein the reagent delivery system comprises a breakable reagent container that delivers reagent to the end of the sample collector that is in contact with the reagent delivery system, when the container is broken.
11. (Original) The device of claim 10 wherein the reagent delivery system comprises a reagent application port positioned to allow introduction of liquid reagent at the distal end of the sample collector.
12. (Previously Presented) The device of claim 7, wherein the sampler member further comprises a sharp for perforating skin to draw blood or other fluids to be used as the sample.
13. (Original) The device of claim 12 wherein the sharp is positioned to allow sample to flow along the sharp to the absorbent wick or tubing.
14. (Original) The device of claim 7 wherein the transit zone comprises a bibulous material and further comprises a label transfer pad.
15. (Previously Presented) The device of claim 14 wherein the label transfer pad is located at the end of the transit zone that is opposite of the capture zone.
16. (Original) The device of claim 14 wherein the label transfer pad contains labeled moieties selected from (a) a labeled specific analyte-binding reagent, (b) a labeled analyte analog, (c) components and means for producing within the label transfer pad a labeled specific analyte-binding reagent, or (d) components and means for producing within the label transfer pad a labeled specific analyte analog.
17. (Original) The device of claim 16 wherein the means for producing a labeled specific analyte-binding reagent or a labeled specific analyte analog include a detection port adjacent to the label transfer pad positioned to allow the addition of elements required to assemble the labeled specific analyte-binding reagent or labeled specific analyte analog.
18. (Original) The device of claim 17 wherein the sample collector is positioned to allow capillary communicating contact with the label transfer pad when the housing is assembled.

19. (Original) The device of claim 18 wherein the labeled moieties are distributed on the label transfer pad so that the labeled specific analyte-binding reagent or labeled specific analyte analog becomes mobile upon fluid contact between the sample collector and the label transfer pad.

20. (Original) The device of claim 18 wherein the labeled moieties are labeled with one or more labels selected from the group consisting of a radioisotope, a particulate metal, a dye, one or more components of a catalyzed or enzymatic reaction, and a chemiluminescent compound.

21. (Previously Presented) The device of claim 7 wherein the sample collector comprises labeled moieties selected from (a) a labeled specific analyte-binding reagent, and (b) a labeled analyte analog.

22. (Previously Presented) The device of claim 21 wherein the labeled moieties are present at or near the end of the sample collector that is opposite of the end of the sample collector that is in capillary communicating contact with the capture zone through the transit zone when the device is assembled.

23. (Previously Presented) The device of claim 21 wherein the labeled moieties are present at or near the end of the sample collector that is in capillary communicating contact with the capture zone through the transit zone when the device is assembled.

24. (Original) The device of claim 22 wherein the labeled moieties are labeled with one or more labels selected from the group consisting of a radioisotope, a particulate metal, a dye, one or more components of a catalyzed or enzymatic reaction, and a chemiluminescent compound.

25. (Original) The device of claim 7 wherein the reagent delivery system is comprised of a reagent application port.

26. (Previously Presented) The device of claim 25 wherein the reagent application port is positioned to allow introduction of liquid reagent at the end of the sample collector that is in capillary communicating contact with the capture zone through the transit zone when the device is assembled.

27. (Original) The device of claim 26 wherein the liquid reagent contains a substance selected from the group consisting of an analyte, an analyte analog, a specific analyte-binding reagent, a signal-generating reagent and an ancillary reagent.

28. (Original) The device of claim 7 wherein the reagent delivery system comprises an absorbent reagent pad.

29. (Original) The device of claim 28 wherein the reagent delivery system further comprises at least one breakable reagent container and the absorbent reagent pad is

positioned between at least one breakable reagent container and the sample collector.

30. (Original) The device of claim 29 wherein the absorbent reagent pad is in capillary communicating contact with the sample collector.

31. (Previously Presented) The device of claim 7 further comprising a detection port positioned adjacent to the end of the chromatography region that makes contact with the sampler member when the device is assembled and shaped to allow addition of reagent to the chromatography region.

32. (Original) The device of claim 31 wherein the detection port is positioned adjacent to the transit zone.

33. (Original) The device of claim 7 further comprising an air gap between the reagent delivery system and the chromatography region, the air gap positioned so that the sample collector bridges the air gap and creates capillary communicating contact between the reagent delivery system and the chromatography region.